



SENATE TAXATION

EXHIBIT NO. 3DATE 4.7.11BILL NO. HB616

Land Resources and Environmental Science

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Gerald A. (Jerry) Nielsen

Professor Emeritus; Ph.D. 1963, M.S. 1960, B.S. 1958, *University of Wisconsin*. Soil genesis, morphology and classification research including land and climate evaluation systems for management of agricultural and natural resources; recognizing and mapping biologically significant soil attributes and processes; applying soil and climatic data bases in field-scale geographic information systems using global positioning systems, remote sensing and expert system technologies.

Recent Publications:

- Keck, T. J. 1998. Spatial analysis of reconstructed mine soils: soil survey, statistical modeling and terrain analysis for land resource inventory. Ph.D. thesis. Montana State University. Bozeman, MT.
- Thoma, D. P., G. A. Nielsen, C. Montagne, M. P. Henry, M. C. Breneman, D. W. Bailey, D. S. Long. 1998. AVHRR-NDVI estimation of seasonal biomass and nitrogen content changes in Montana rangelands. p.260. In *Agronomy abstracts. Am. Soc. Agron.*, Madison, WI.
- Wilson, J. P., D. J. Spangrud, G. A. Nielsen, J. S. Jacobsen, and D. A. Tyler. 1998. Global positioning system sampling intensity and pattern effects on computed topographic attributes. *Soil Sci. Soc. of Am. J.* 62:1410-1417.
- Nielsen, G. A., M. P. Henry. 1997. Application of satellite imagery for precision agriculture. p. 249. In *Agronomy abstracts. Am. Soc. Agron.*, Madison, WI.
- Nielsen, G. A., D. S. Long, L. P. Queen. 1996. Mapping potentials of digitized aerial photographs and space images for site-specific crop management. *SPIE-International Soc. for Optical Engineering*. Aug. 8-9, Denver, CO.

Recent Grants:

- *Enhancing AgLink with Soil Survey Data*. Natural Resources Conservation Service. Jerry Nielsen, Cliff Montagne, Daniel Long. \$50,000.
- *A Public Access Resource Center (PARC) Empowering the General Public to Use EOSDIS. Phase III. Operations*. NASA/Upper Midwest Aerospace Consortium(UMAC). Jerry Nielsen, Dan Long, Rick Engel, Cliff Montagne, Bruce Maxwell. \$351,000.
- *A Public Access Resource Center Empowering the General Public to Use EOSDIS-Implementation Phase*. NASA/UMAC. Jerry Nielsen, Dan Long, Cliff Montagne, Bruce Maxwell, Rick Engel. \$79,995.

Other Links: